| | laims | |
|------|-----------|--|
| | | |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/047,057 | CHANG ET AL. |
| Examiner | Art Unit |

| | Rejected | - | (Through numeral) Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed | ÷ | Restricted |

| N | Non-Elected | A |
|---|--------------|---|
| I | Interference | 0 |

Brian Roberts

| A | Appeal |
|---|----------|
| 0 | Objected |

2662

| Cla | aim | Γ | | _ | | _ | Dai | е | | | |] [| Cla | aim | | | | | Date | = | | |
|----------|----------|----------|------|----------|----------|----------|----------|----------|--------------------|--------------|-----------------|-----|-------|----------|--------------|----------|---|-------------------|--|----------|--|--------|
| Final | Original | 10/00/00 | 1000 | | | | | | | | | | Final | Original | | | | | | | | |
| | 1 | L | 1 | | | | | | | | | | | 51 | | | | | | | | Γ |
| | 2 | 1 | | | | | Γ | | L | | | | | 52 | | | | | | | | |
| | 3 | Ц | | | <u> </u> | L | \perp | | $oldsymbol{\perp}$ | L | | | | 53 | | | | | | L | | L |
| | 4 | Ц | | | | ┖ | ┖ | | $oldsymbol{\perp}$ | <u> </u> | L | | | 54 | | _ | | | | _ | | L |
| | 5 | Ц | Ц | | <u> </u> | ┖ | ┸ | L | ↓_ | $oxed{oxed}$ | | | | 55 | | | | | | <u>_</u> | | L |
| | 6 | Ш | Ц | | | _ | | 上 | _ | _ | L | 1 | | 56 | | _ | | | <u> </u> | <u></u> | <u> </u> | L |
| | 7 | Ц | | | | <u> </u> | <u> </u> | <u> </u> | ╙ | ╙ | 匚 | 1 1 | | 57 | \downarrow | _ | | | <u> </u> | _ | | L |
| | 8 | Ц | _ | | | ┖ | ┸ | ┸ | _ | ļ. | L | | | 58 | | | | | _ | _ | | L |
| į | 9 | П | _ | | | ļ_ | 1 | ╙ | ↓ | ↓_ | L | | | 59 | _ | _ | | | L | <u> </u> | <u> </u> | Ļ |
| | 10 | Ц | _ | | | ┡ | ┼ | ↓_ | \bot | \vdash | ┡ | | | 60 | - | _ | | | _ | _ | | Ļ |
| | 11 | Н | 4 | | _ | ┡ | ↓_ | ╄ | ╀ | ₩ | _ | | | 61 | | \dashv | | | - | <u> </u> | <u> </u> | Ł |
| | 12 | Ш | _ | | | <u> </u> | ┺ | ╀ | ╁. | ┞ | - | | | 62 | | \dashv | | | <u> </u> | L | L | ╀ |
| <u> </u> | 13 | 11 | _ | | _ | ┡ | ╄ | ╀ | ┼ | ╀ | ⊢ | | | 63 | \dashv | \dashv | _ | | ├- | - | <u> </u> | ╀ |
| <u> </u> | 14 | ₩ | _ | | <u> </u> | ⊢ | ╀ | +- | ╀ | ╄ | | 1 | | 64 | -+ | | _ | _ | ┝ | ┝ | ⊢ | ╀ |
| - | 15 | ╢ | 4 | | | ⊨ | ₽ | ╀ | ╁ | ┼ | <u> </u> | 1 | | 65 66 | \dashv | \dashv | | _ | ├- | _ | ⊢ | ╀ |
| | 16 17 | 11 | 4 | | _ | }_ | ┿ | ╁ | ╁ | ┾ | ├ | 1 | | 67 | | _ | | \vdash | \vdash | \vdash | \vdash | ╀ |
| | | Н | _ | | - | ╀ | ╄ | + | ╁ | | <u> </u> | + 1 | | 68 | \dashv | - | | | - | ├ | ├ | ╀ |
| | 18 19 | Н | Н | | H | ╁ | ╁ | ╁ | ╁ | ┼ | - | 1 | | 69 | \dashv | - | _ | \vdash | \vdash | - | ├ | ╁ |
| - | 20 | Н | Н | | - | ╁ | ╁ | + | ╁ | + | ├ | ł | | 70 | \dashv | \dashv | | \vdash | - | ┢ | ├ | ╁ |
| - | 21 | Н | Н | | ┝ | ╁ | + | + | ╁ | + | | 1 | | 71 | | - | - | _ | | - | ⊢ | ╁ |
| - | 22 | Н | Н | _ | - | ┼ | + | + | ╁ | ╁ | ⊢ | łl | | 72 | | | | - | | - | - | ╁ |
| - | 23 | Н | Н | | | - | ╁ | ╁ | ╁╴ | ╁ | ⊢ | 1 | | 73 | \dashv | | | | ┢ | \vdash | ┢ | t |
| | 24 | Н | Н | | - | ╁ | + | ╁ | + | ╁ | \vdash | 1 | | 74 | - | \dashv | _ | | ┢ | | ⊢ | t |
| - | 25 | Η | Н | _ | | H | + | $^{+}$ | + | + | H | 1 | | 75 | _ | - | | \vdash | | | | t |
| | 26 | H | Н | | | H | + | ╁ | + | +- | ┢ | 1 | | 76 | \dashv | | _ | | \vdash | | \vdash | t |
| | 27 | t | H | | ┢ | H | + | + | + | + | - | 1 | | 77 | | \neg | | Ι | \vdash | \vdash | \vdash | t |
| | 28 | Ħ | H | | _ | t | ✝ | T | +- | 1 | T | 1 | | 78 | | | | | | <u> </u> | t | t |
| | 29 | Ħ | Н | | <u> </u> | ı | Ť | 1 | T | T | Т | i I | | 79 | T | | | | Г | | | t |
| | 30 | Ħ | П | | | T | 1 | Ť | \top | T | Т | 1 | - | 80 | | | | | | | | T |
| | 31 | Ħ | П | | | T | \top | | 1 | | | 1 | | 81 | | | | | | | | T |
| | 32 | П | П | | | T | Τ | | | | | 1 | | 82 | | | | Г | | | | Γ |
| | 33 | П | | | | Г | Τ | | \prod | | |] | | 83 | | | | | | | | Ι |
| | 34 | | | | | | | | | | | | | 84 | | | | | | | | Ι |
| | 35 | | | | | L | | | | | | | | 85 | | | | | | | | L |
| | 36 | Ц | | | | | L | | | | Ĺ | | | 86 | | | | | | | L | L |
| | 37 | Ц | | | | L | L | | | | | | | 87 | | | | oxdot | $oxed{oxed}$ | _ | L | L |
| <u> </u> | 38 | Ц | | <u></u> | L | L | \perp | \perp | | | $oxed{igspace}$ | | | 88 | | | | $ldsymbol{f eta}$ | _ | _ | L | Į. |
| | 39 | Ц | Ц | | L | L | L | 1 | 1_ | 1_ | L | | | 89 | \Box | | | Ь | _ | ــــ | <u> </u> | ļ |
| <u></u> | 40 | Ц | | _ | _ | L | ↓_ | ╄ | 4_ | \perp | | | | 90 | \sqcup | | | \vdash | <u> </u> | <u> </u> | L | Ļ |
| <u></u> | 41 | Ц | Ц | | <u> </u> | L | ╀ | 1 | \perp | \perp | \vdash | | | 91 | \Box | _ | | <u> </u> | | - | _ | ╀ |
| - | 42 | Н | H | | ┡ | ┡ | ╀ | ╄ | +- | +- | ⊢ | | | 92 | _ | | | _ | | | <u> </u> | ╀ |
| \vdash | 43 | H | H | <u> </u> | _ | - | + | + | + | ┼ | ╀- | | | 93 | - | | - | ⊢ | | - | - | ╀ |
| | 44 | H | Н | <u> </u> | _ | ╀ | + | - | + | \vdash | \vdash | | | 94 | - | _ | - | <u> </u> | | ├- | ⊬ | + |
| | 45 46 | Н | H | _ | - | + | + | ╀ | + | + | ╂— | | | 95 96 | - | | _ | \vdash | - | ⊢ | ├ | + |
| - | 47 | Н | Н | \vdash | ⊢ | ╁ | + | + | ╁ | + | ╀ | 1 | | 97 | \dashv | | | | — | ⊢ | ⊢ | ╁ |
| | 48 | Н | Н | \vdash | \vdash | ╁ | ╀ | + | +- | ╫ | \vdash | | | 98 | \dashv | | _ | \vdash | \vdash | \vdash | \vdash | ╁ |
| - | 49 | - | | \vdash | - | ╁ | ╁ | ╁ | + | + | +- | 1 | | 99 | - | _ | - | ├ | | \vdash | \vdash | + |
| - | 50 | ۲ | | \vdash | \vdash | + | + | + | + | + | +- | 1 | | 100 | \dashv | | | \vdash | | \vdash | \vdash | $^{+}$ |
| | 1 30 | ۰ | _ | | | _ | _ | | | | ۰ | ן נ | | , | | | L | ــــــا | Ь— | Ц. | ــــــــــــــــــــــــــــــــــــــ | _ |

| Cla | im | | | | | Date | _ | | | |
|----------|----------------------------------|-------------|--|----------|----------|--------------|----------|----------|--|----|
| Oil | | - | | | _ | | | | | |
| <u></u> | Original | | | | | | | | | |
| Final | į | | | | | | | | | |
| " | ō | | | | | | | | | |
| | | _ | | _ | | \vdash | Н | | - | |
| | 52 | | | _ | | Н | - | - | \vdash | |
| <u> </u> | 52 | | | - | | Н | - | _ | Н | |
| - | 54 | | | | | | - | | | |
| \vdash | 51 52 53 54 55 | \vdash | _ | _ | | Н | _ | _ | _ | - |
| <u> </u> | 55 | - | - | _ | \vdash | \vdash | _ | | - | _ |
| _ | 56 57 | _ | | _ | H | \vdash | _ | | | - |
| | 58 | _ | \vdash | | | Н | | | | |
| - | 59 | | | | _ | _ | _ | | | |
| _ | 60 | _ | _ | H | _ | _ | _ | | | |
| | 61 | | Н | | | | | | | |
| - | 62 | | \vdash | _ | | | - | | | |
| - | 62 63 | <u> </u> | \vdash | - | \vdash | \vdash | \vdash | \vdash | \vdash | _ |
| - | 64 | | - | \vdash | - | \vdash | - | \vdash | \vdash | |
| - | 64 65 | | | \vdash | \vdash | \vdash | \vdash | \vdash | \vdash | |
| | 66 | | \vdash | \vdash | \vdash | \vdash | - | - | \vdash | - |
| | 67 | | \vdash | | \vdash | | \vdash | | - | - |
| | 67 68 | \vdash | H | | _ | \vdash | \vdash | | \vdash | |
| | 69 | - | ├ | | H | \vdash | | - | \vdash | |
| | 70 | - | ┝ | | \vdash | \vdash | ┢ | ├ | \vdash | _ |
| — | 70 71 | | ┢ | H | \vdash | | - | H | | _ |
| | 72 | | - | | H | | | - | | |
| | 72 73 74 75 76 77 | | ├ | | | \vdash | \vdash | _ | | — |
| _ | 74 | - | \vdash | \vdash | ┢ | | | \vdash | | |
| - | 75 | ┢ | ┢ | - | \vdash | | | - | - | |
| - | 76 | \vdash | - | \vdash | | \vdash | \vdash | \vdash | _ | |
| | 77 | | | H | <u> </u> | \vdash | \vdash | \vdash | | - |
| _ | 78 | - | \vdash | \vdash | _ | \vdash | ┢┈ | | | |
| | 78 79 | \vdash | T | <u> </u> | _ | \vdash | \vdash | | Г | |
| | 80 | \vdash | - | ┢ | \vdash | Н | \vdash | _ | | |
| | 81 | | | | \vdash | | - | | \vdash | |
| | 81 82 | | | \vdash | \vdash | Г | | \vdash | | |
| | 83 | | _ | _ | Г | | | | | |
| | 84 | | _ | | Г | | | | | |
| | 85 | | | | | | | | | |
| | 86 | | Г | - | | | | | | |
| | 87 | | | | | | | | | |
| | 88 | | | | | | | | | - |
| | 89 | | Π | | | | | | | |
| | 90 | | | | | | | | | |
| | 91 | | | | | | | | | |
| | 92 | | | | | | | | | |
| | 93 | | | | | | | | | |
| | 94 | | | | | | | | | |
| | 95 | | | | | | | | | |
| | 96 | | | | | | | | | |
| | 97 | | | | | | | | | |
| | 98 | | | | | | | | | |
| | 99 | | | | L^- | L | | L | | |
| | 100 | | Г | | Γ | | Γ | Γ | Γ | Ī_ |

| Claim Date Image: Sp. O Image: Sp. O 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 144 145 146 147 148 149 150 150 | CI | oim | | | | |)ata | | | | \neg |
|---|-------|----------|----------|--------------|--------------|----------|---------------------------|----------|--------------|-------------------|----------|
| 101 | Cli | | - | | | | Jale | ; | _ | | - |
| 101 | Final | Original | | | | | | | | | |
| 103 104 105 106 107 108 109 110 111 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 149 149 149 149 | | | | | | | - | | | - | - |
| 103 104 105 106 107 108 109 110 111 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 149 149 149 149 | | 101 | _ | | | | | | | _ | \dashv |
| 105 106 107 108 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 148 149 148 149 | | 102 | | | | | | | | | |
| 105 106 107 108 109 110 111 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 148 149 148 149 | | 104 | | _ | | | | _ | | | \dashv |
| 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 149 148 149 149 148 149 149 148 149 149 148 149 149 148 149 | | 105 | | | | | | | | | \dashv |
| 107 | | 106 | | | | | | | | | |
| 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 107 | | | | | | | | | |
| 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 108 | | | | | | | | | |
| 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 109 | | | | | | | | | |
| 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 110 | | | | | | | | | |
| 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 111 | | | | | | | | | |
| 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 112 | Ш | | | | | | | | |
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 113 | | _ | | | $ldsymbol{ldsymbol{eta}}$ | | | L | Щ |
| 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 114 | <u> </u> | _ | L | | L. | | | | Щ |
| 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 144 145 146 147 148 149 | | 115 | | | | | | | | | _ |
| 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 116 | | | | - | | | | | \vdash |
| 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 117 | | <u> </u> | | _ | - | | | \vdash | Н |
| 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 144 145 146 147 148 | | 110 | | | | _ | H | | | - | Н |
| 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 120 | - | - | - | | \vdash | | | | |
| 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 121 | \vdash | - | | | H | | - | - | |
| 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 122 | - | _ | | | H | | | | \vdash |
| 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 123 | | | | _ | \vdash | | | \vdash | Н |
| 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 124 | - | | | | | - | | | П |
| 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 125 | | | | | | | | | |
| 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | - | 126 | | | | | П | | | | |
| 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 127 | | | | | | | | | |
| 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 128 | | | | | | | | | |
| 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 129 | | | | | | | | | |
| 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 130 | | | | | | | L. | L | Ш |
| 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 131 | L | L., | | | _ | | | ļ | Ш |
| 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 132 | L | | | | | | | ļ | |
| 135 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 133 | <u> </u> | _ | | | \vdash | _ | ļ | ļ | |
| 136 137 138 139 140 141 142 143 144 145 146 147 148 | | 134 | <u> </u> | | L | | ⊢ | <u> </u> | <u> </u> | | |
| 137 138 139 140 141 142 143 144 145 146 147 148 149 | | 135 | | _ | \vdash | _ | _ | | | ├ | \vdash |
| 138 139 140 141 142 143 144 145 146 147 148 149 | | 137 | \vdash | - | \vdash | _ | - | ⊢ | ├ | \vdash | \vdash |
| 139 140 141 142 143 144 145 146 147 148 149 | | 138 | | | \vdash | _ | | _ | \vdash | - | \vdash |
| 141 142 143 144 145 146 147 148 149 | | 139 | \vdash | \vdash | H | | H | \vdash | \vdash | \vdash | Н |
| 141 142 143 144 145 146 147 148 149 | | 140 | \vdash | \vdash | | | | Г | \vdash | \vdash | Н |
| 142 143 144 145 146 147 148 149 | | | | | | Г | | | Г | Г | П |
| 143 144 145 146 147 148 149 | | 142 | | | | | | | | | |
| 145 146 147 148 149 | | 143 | | | | | | | | | |
| 146 147 148 149 | | | | | | | | | | | |
| 147 148 149 | | 145 | | | | L. | _ | | <u> </u> | <u> </u> | Ш |
| 148 | | | <u> </u> | <u> </u> | <u> </u> | L | L. | <u> </u> | L | $ldsymbol{f eta}$ | Ш |
| 149 | | | _ | <u> </u> | <u> </u> | | ldash | _ | <u> </u> | L_ | Щ |
| 150 | | | <u> </u> | \vdash | \vdash | \vdash | ⊢ | <u> </u> | \vdash | \vdash | Ш |
| 150 | | 149 | <u> </u> | | ⊢ | <u> </u> | ├ | <u> </u> | \vdash | \vdash | Н |
| | | 150 | <u> </u> | L | L | L | L | L | | L_ | Ш |